



WR-19 Waveguide Power Detector, U Band, 40 GHz to 60 GHz, Positive Output Voltage Polarity, UG-383/ U-M Flange

The FMMT3009 is a WR-19 Waveguide Power Detector, operating across the U Band from 40 GHz to 60 GHz. This 50 Ohm design features Positive Output Voltage Polarity. Impressive typical performacne includes Video Sensitivity of 1100 mV/mW with +/- 2dB flatness, Tangential Sensitivity of -50 dBm, Input Dynamic Range of -55 dBm to +10 dBm, and Detection Speed Rise Time of 5 nsec. Maximum input power handling is +17 dBm. The rugged and small size Brass package design is gold plated and supports a UG-383/U-M waveguide flange pattern at RF input and output ports. The DC output port uses an SMA Female connector. The module operates across a temperature range from 0°C to +50°C.

Electrical Specifications

Description	Min		Тур	Max	Unit
Frequency Range	40			60	GHz
Voltage Sensitivity			1,100		mV/mW
RF Input Power				-20	dBm
Tangential Sensitivity			-50		dBm
Sensitivity Flatness			1.5		dB
Dynamic Range	-55			+10	dBm
Output Voltage Polarity		Р	ositive		
RF Input Power for Squa	re Law Region			-20	dBm
Video Bandwidth			1		GHz
RF Input Power applied f	or testing		-20		dBm
Detection Speed, Rise Ti	me		5		ns

Mechanical Specifications

Temperature

Operating Range 0 to +50 deg C

Size

Length 1.104 in [28.04 mm]
Width 0.89 in [22.61 mm]
Height 1.114 in [28.3 mm]
Weight 0.1 lbs [45.36 q]

Waveguide Size WR-19
Flange Destination UG-383/U-M
Flange Type Round Cover
DC Connector SMA Female
Material and Plating Brass, Gold

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25 °C, sea level



Features:

- WR-19 Waveguide Power Detector
- 40 GHz to 60 GHz
- U Band
- Positive Output Voltage Polarity
- Voltage Sensitivity 1100 mV/mW
- Sensitivity Flatness +/- 2dB typ
- Tangential Sensitivity
 -50 dBm typ
- Input Dynamic Range
 -55 dBm to +10 dBm
- Detection Speed Rise Time 5 nsec typ
- Max RF Input Power +17 dBm
- 50 Ohm Design
- RF Input and Output Waveguide Flange UG-383/U-M
- SMA Female DC Output Port
- Operational Temperature Range -0°C to +50°C
- Rugged and Compact Brass Gold Plated Package Design

Applications:

- Military & Space
- R&D Labs
- Communication Systems
- Radar Systems
- Microwave Radio Systems
- RF Wideband Front Ends
- Test Instrumentation

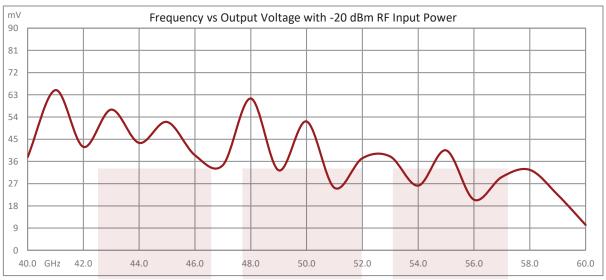
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Typical Performance Data



WR-19 Waveguide Power Detector, U Band, 40 GHz to 60 GHz, Positive Output Voltage Polarity, UG-383/U-M Flange from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

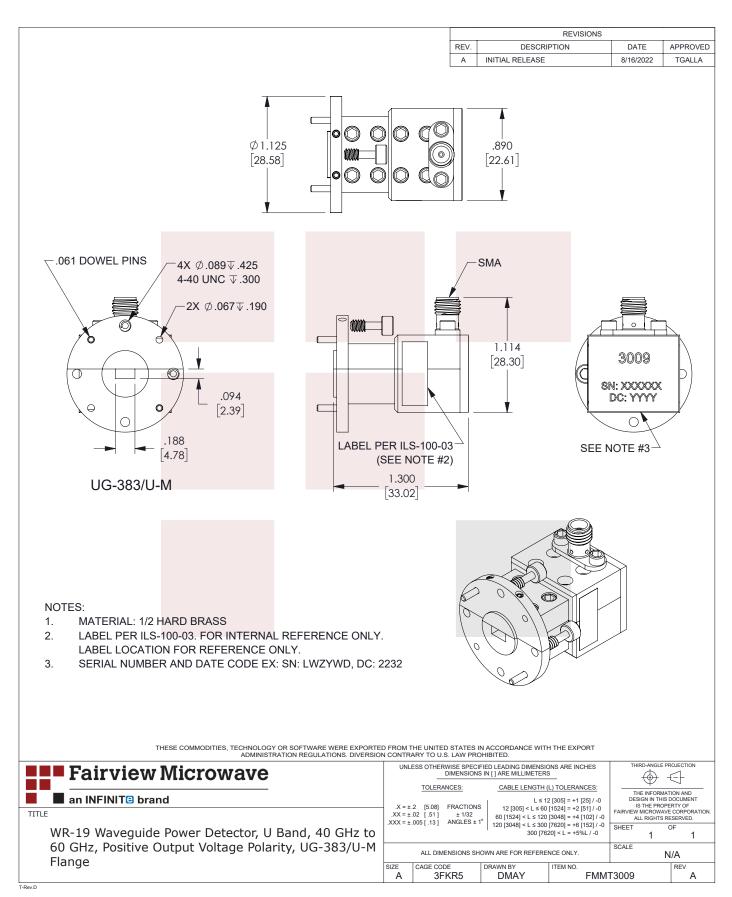
For additional information on this product, please click the following link: U Band WR-19 Waveguide Power Detector, U Band, 40 GHz to 60 GHz, Positive Output Voltage Polarity, UG-383/U-M Flange FMMT3009

URL:

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